hk	/CRF ED rs Corrected by th STIC System Branch 0/1./ng	
Sariai N	CRF Processing Date: 8/6/97 Edited by:	_
	Changed a file from non-ASCII to ASCII Verified by: (STIC st	afi
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.	
	Edited a format error in the Current Application Data section, specifically:	
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other	
	Added the mandatory heading and subheadings for "Current Application Data".	
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.	
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:	
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:	
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:	
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.	
	Inserted colons after headings/subheadings. Headings edited included:	•
	Deleted extra, invalid, headings used by an applicant, specifically:	
	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file page numbers throughout text; ☐ other invalid text, such as	e;
	Inserted mandatory headings, specifically:	
	Corrected an obvious error in the response, specifically:	-
	Edited identifiers where upper case is used but lower case is required, or vice versa.	
	Corrected an error in the Number of Sequences field, specifically:	
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.	
	Deleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:	
	Other:	

*Examin r: The abov corrections must b communicated to the applicant in the first Office Action. DO NOT s nd a copy of this form.



RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:03

INPUT SET: S32821.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

1	SEQUENCE LISTING
2 3	(1) General Information: Does Not Comply Corrected Diskette Neede
4 5 6	(i) APPLICANT: Lester, Henry A. Davidson, Norman
7	Kofuji, Paulo
9 10 11	(ii) TITLE OF INVENTION: INWARD RECTIFIER, G-PROTEIN ACTIVATED, MAMMALIAN, POTASSIUM CHANNELS AND USES THEREOF
12 13	(iii) NUMBER OF SEQUENCES: 2
14 15 16 17	 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP (B) STREET: Four Embarcadero Center, Suite 3400 (C) CITY: San Francisco
18 19 20 21	(D) STATE: California (E) COUNTRY: United States (F) ZIP: 94111-4187
22 23 24 25 26 27	 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28 29 30 31 32	 (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US 09/039,927 (B) FILING DATE: 16-MAR-1998 (C) CLASSIFICATION:
33 34 35 36	<pre>(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/066,371 (B) FILING DATE: 21-MAR-1993</pre>
37 38 39 40	(vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/614,801 (B) FILING DATE: 07-MAR-1996
41 42 43 44 45	<pre>(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Trecartin, Richard F. (B) REGISTRATION NUMBER: 31,801 (C) REFERENCE/DOCKET NUMBER: A-63098-1/RFT</pre>

RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:03

INPUT SET: S32821.raw

46	(ix) TELECOMMUNICATION INFORMATION:
47	(A) TELEPHONE: (415) 781-1989
48	(B) TELEFAX: (415) 398-3249
49	(C) TELEX: 910 277299
50	

ERRORED SEQUENCES FOLLOW:

91

	(2) INFORMATION FOR SEQ ID NO:1:	
52		
53	(i) SEQUENCE CHARACTERISTICS:	
54	(A) LENGTH: 2076 base pairs	
55	(B) TYPE: nucleic acid	
56	(C) STRANDEDNESS: single	
57	(D) TOPOLOGY: linear	
58	•	
59	(ii) MOLECULE TYPE: cDNA	
60		
61	(ix) FEATURE:	
62	(A) NAME/KEY: CDS	
63	(B) LOCATION: 321534	
64	180	
65	(A) NAME/KEY: CDS (B) LOCATION: 321534 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: GGCACGAGAA TCTGGATCTC CCCTCCGTAT T ATG TCT GCA CTC CGA AGG AAA 52 Met Ser Ala Leu Arg Arg Lys	
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69	Met Ser Ala Leu Arg Arg Lys	
70	1 5	
71		
72	TTT GGG GAC GAT TAC CAG GTA GTG ACC ACT TCG TCC AGC GGT TCG GGC	
73	100	
74	Phe Gly Asp Asp Tyr Gln Val Val Thr Thr Ser Ser Gly Ser Gly	
74 75	Phe Gly Asp Asp Tyr Gln Val Val Thr Thr Ser Ser Gly Ser Gly 10 15 20	
75		
75 76	10 15 20	
75 76 77	10 15 20 TTG CAG CCC CAG GGG CCA. GGA CAG GGC CCA CAG CAG CAG CTT GTA CCC	
75 76 77 78	10 15 20 TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
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75 76 77 78 79 80	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
75 76 77 78 79 80 81	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
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75 76 77 78 79 80 81 82 83	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
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75 76 77 78 79 80 81 82 83 84 85	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
75 76 77 78 79 80 81 82 83 84 85 86	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	
75 76 77 78 79 80 81 82 83 84 85 86 87	TTG CAG CCC CAG GGG CCA GGA CAG GGC CCA CAG CAG	

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DATE: 08/06/1999 TIME: 13:15:04

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	94	Phe	Thr	Thr		Val	Asp	Leu	Lys		Arg	Trp	Asn	Leu		тте	Pne	
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	103		Tla	λla	TT TO THE	Thr	Ara	Gly	Aen	T.611	λαn	T.vg	λla	His	Val	G1 v	Δen	
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>	107	TAC	ΔСТ	CCC	тст	GTG.	CCC	AAT	CTC	тат	AAC	TTC	CCC	тст	GCC	TTC	СТТ	436
	108							Asn										
	109	120			0,0		125			- 3 -		130					135	
	110	-20																
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	120																	
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	127	628						_				_			_		'	
	128	Met		GIn	Pro	Lys	Lys	Arg	Ala	GLU	Thr	Leu		Pne	Ser	GIU	HIS	
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	142	772	-10															
	143		Leu	Lvs	Ser	Ara	Gln	Thr	Pro	Glu	Gly	Glu	Phe	Leu	Pro	Leu	Asp	
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TIME: 13:15:04

DATE: 08/06/1999

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														III	IFUI	SEI:
146		CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	CAA	CTT	TTT
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148	GIn	Leu		Leu	Asp	Val	GTĀ		ser	Thr	СТÅ	АТа	_	GIN	Leu	Phe
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153	Leu		ser	Pro	Leu	Thr		cys	HIS	vaı	тте	-	АТА	Lys	Ser	PIO
154		265					270					275				
155 156	mmm	шаш	a a a	CITE A	шаа	ana	aas	NOO	N MC	CAA	y Cim	CAA	CAC	TTC	CAC	CITIC
157	916	IAI	GAC	CIA	100	CAG	COM	AGC	AIG	CAA	ACI	GAA	CAG	110	GAG	GIG
157		Поль	Nen	Lau	Sar	Gln	Ara	Sar	Mat	al n	Thr	Glu	@ln	Phe	Glu	Val
159	280	1 y 1	Yob	пеп	261	285	ALG	Der	Mec	GIH	290	GIU	GIII	riic	GIU	295
160	200					203					270					275
161	GTC	GTC	ΔТС	стс	GAA	gge	АТС	GTG	GAA	ACC	ACA	GGG	AТG	ACT	тст	CAA
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163		Val	Tle	Leu	Glu	Glv	Ile	Val	Glu	Thr	Thr	Glv	Met	Thr	Cvs	Gln
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167	1012															
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178	Gln		His	Ala	Thr	Phe		Val	Pro	Thr	Pro		Tyr	Ser	Val	Lys
179		345					350					355				
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181			GAA	GAA	ATG	CTT	CTC	ATG	TCT	TCC	CCT	TTA	ATA	GCA	CCA	GCC
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184	360	GIII	GIU	GIU	Mer	365	rea	Met	ser	Ser	370	Leu	TIE	ATG	FIU	375
185	300					303					370					3,3
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187	1204		AAC	AGC	AAA	OAA	NOA	CAC	AA.	101	010	UAU	100		VA.	0011
188			Asn	Ser	Lvs	Glu	Ara	His	Asn	Ser	Val	Glu	Cvs	Leu	Asp	Glv
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DATE: 08/06/1999 TIME: 13:15:04

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	204		425					430					433						
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	205	1396		100	GII	CCI	GGC	AAC	101	GAA	GAA	AAA	CIG	GIA	101	ллл	ACC		
	208			Ser	Val	Pro	al v	Δsn	Ser	Glu	G111	Lvs	Leu	Val	Ser	Lvs	Thr		
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	218	Pro	Lys	Leu	Gln	Lys	Met	Ala	Gly		Pro	Thr	Arg	Met		GTA	Asn		
	219				475					480					485				
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>	226	CCAA				594													
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	228	GCTG	ATA	AGA '	TAAT	CCTC	CC CC	GGA/	AATC:	r gag	GAGG!	ICTA	TCC	CAGT	CTG				
>	229	GCAA	ATTO	CAT	10	654													
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:05

INPUT SET: S32821.raw

2076

252 AG 253

254

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:05

Line	Error	Original Text
54	Entered (2076) and Calc. Seq. Length (182) differ	(A) LENGTH: 2076 base pairs
107	# of Sequences for line conflicts w/ running total	TAC ACT CCC TGT GTG GCC AAT GTC TAT AAC TTC
221	# of Sequences for line conflicts w/ running total	CTT CCA GCC AAA CTA AGA AAA ATG AAC TCT GA
226	# of Sequences for line conflicts w/ running total	CCAATATTTG 1594
229	# of Sequences for line conflicts w/ running total	GCAAATTCAT 1654
232	# of Sequences for line conflicts w/ running total	AGGGAGGACA 1714
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250	# of Sequences for line conflicts w/ running total	AAAAAACTCG 2074

DATE: 08/06/1999 TIME: 18:23:32

INPUT SET: S32821.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

```
SEQUENCE LISTING
1
2
                                                        ENTERED
3
           General Information:
    (1)
 4
5
          (i) APPLICANT: Lester, Henry A.
6
                         Davidson, Norman
7
                         Kofuji, Paulo
8
        (ii) TITLE OF INVENTION: INWARD RECTIFIER, G-PROTEIN ACTIVATED,
9
                 MAMMALIAN, POTASSIUM CHANNELS AND USES THEREOF
10
11
       (iii) NUMBER OF SEQUENCES: 2
12
13
        (iv) CORRESPONDENCE ADDRESS:
14
               (A) ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP
15
               (B) STREET: Four Embarcadero Center, Suite 3400
16
17
               (C) CITY: San Francisco
18
               (D) STATE: California
               (E) COUNTRY: United States
19
20
               (F) ZIP: 94111-4187
21
         (V) COMPUTER READABLE FORM:
22
               (A) MEDIUM TYPE: Floppy disk
23
24
               (B) COMPUTER: IBM PC compatible
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25
26
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28
        (vi) CURRENT APPLICATION DATA:
29
               (A) APPLICATION NUMBER: US 09/039,927
               (B) FILING DATE: 16-MAR-1998
30
               (C) CLASSIFICATION:
31
32
33
       (vii) PRIOR APPLICATION DATA:
34
               (A) APPLICATION NUMBER: US 08/066,371
35
               (B) FILING DATE: 21-MAR-1993
36
       (vii) PRIOR APPLICATION DATA:
37
               (A) APPLICATION NUMBER: US 08/614,801
38
39
               (B) FILING DATE: 07-MAR-1996
40
      (viii) ATTORNEY/AGENT INFORMATION:
41
42
               (A) NAME: Trecartin, Richard F.
               (B) REGISTRATION NUMBER: 31,801
43
               (C) REFERENCE/DOCKET NUMBER: A-63098-1/RFT
44
45
46
        (ix) TELECOMMUNICATION INFORMATION:
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DATE: 08/06/1999 TIME: 18:23:32

														II	VPUT	SET:	<i>\$32821</i> .
47																	
48			(1	B) T	ELEF	AX:	(415) 39	8-32	49							
49			i	c) T	ELEX	: 91	0 27	7299									
50			`	•													
51	(2)	INF	ORMA'	TION	FOR	SEO	ID	NO:1	:								
52	(-,																
53		/ i) SE	OUEN	CE CI	HARA	CTER	ISTI	cs:								
54		`, _	,	_				base		rq							
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59		/ 4 4	. MO	r Pari		YPE:	~ DN	n.									
		(11	, MO	LECU	up I.	IFE.	CDM	Α.									
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61		(1X) FE			· .	ana										
62			•	•		KEY:											
63			()	в) г	JCAT.	TON:	32.	.153	4								
64																	
65		(XI) SE	OUEN	CE D	ESCR.	ILLT	ON:	SEQ .	LD NO):T:						
66																	
67	GGC	ACGA	GAA '	rcrg	GATC'	re e	CCTC	CGTA'							AGG A		52
68									1		ser A	ата 1	Leu	_	Arg 1	Lys	
69										1				5			
70																	
71															TCG		100
72	Phe	Gly	Asp	Asp	Tyr	Gln	Val	Val	Thr	Thr	Ser	Ser	Ser	Gly	Ser	Gly	
73			10					15					20				
74																	
75	TTG	CAG	CCC	CAG	GGG	CCA	GGA	CAG	GGC	CCA	CAG	CAG	CAG	CTT	GTA	CCC	148
76	Leu	Gln	Pro	Gln	Gly	Pro	Gly	Gln	Gly	Pro	Gln	Gln	Gln	Leu	Val	Pro	
77		25					30					35					
78																	
79	AAG	AAG	AAA	CGG	CAG	CGG	TTC	GTG	GAC	AAG	AAC	GGT	CGG	TGC	AAT	GTG	196
80	Lys	Lys	Lys	Arg	Gln	Arg	Phe	Val	Asp	Lys	Asn	Gly	Arg	Cys	Asn	Val	
81	40					45					50					55	
82																	
83	CAG	CAC	GGC	AAC	CTG	GGC	AGC	GAG	ACC	AGT	CGC	TAC	CTT	TCC	GAC	CTC	244
84	Gln	His	Gly	Asn	Leu	Gly	Ser	Glu	Thr	Ser	Arg	Tyr	Leu	Ser	Asp	Leu	
85			_		60	_				65	_	_			70		
86																	
87	TTC	ACT	ACC	CTG	GTG	GAT	CTC	AAG	TGG	CGT	TGG	AAC	CTC	TTT	ATC	TTC	292
88	Phe	Thr	Thr	Leu	Val	Asp	Leu	Lys	Trp	Arg	Trp	Asn	Leu	Phe	Ile	Phe	
89						_		•		-	_			85			
90																	
91	ATC	CTC	ACC	TAC	ACC	GTG	GCC	TGG	CTC	TTC	ATG	GCG	TCC	ATG	TGG	TGG	340
92															Trp		
93			90	- J -				95					100		- - r	F	
94			70					, ,									
95	ama	አጥሮ	COM	ጥለጥ	אממ	aga	aaa	GAC	СТС	מ מ	מממ	acc	ርአጥ	GTC	GGC	ልልሮ	388
96 96															Gly		300
97	۷ат	105	WIG	TÄT	1111	A19	110	vah	neu	W211	гуз	115	1113	4 G T	OTA	A311	
98		103					110					113					
99	መአወ	λcm	000	mam	ama	aaa	יייעא	ama	ጥልጦ	א א מ	ጥመረባ	ccc	mam	aaa	መመረግ	புரா	126
フプ	TAC	ACT	CCC	TGT	GIG	GCC	AAT	GTC	TAT	AAC	TTC	CCC	TOT	GUU	TTC	CIT	436

DATE: 08/06/1999 TIME: 18:23:33

INPUT SET: S32821.raw Tyr Thr Pro Cys Val Ala Asn Val Tyr Asn Phe Pro Ser Ala Phe Leu TTC TTC ATC GAG ACC GAG GCC ACC ATC GGC TAT GGC TAC CGC TAC ATC Phe Phe Ile Glu Thr Glu Ala Thr Ile Gly Tyr Gly Tyr Arg Tyr Ile ACC GAC AAG TGC CCC GAG GGC ATC ATC CTT TTC CTT TTC CAG TCC ATC Thr Asp Lys Cys Pro Glu Gly Ile Ile Leu Phe Leu Phe Gln Ser Ile CTT GGC TCC ATC GTG GAC GCT TTC CTC ATC GGC TGC ATG TTC ATC AAG Leu Gly Ser Ile Val Asp Ala Phe Leu Ile Gly Cys Met Phe Ile Lys ATG TCC CAG CCC AAA AAG CGC GCC GAG ACC CTC ATG TTT AGC GAG CAT Met Ser Gln Pro Lys Lys Arg Ala Glu Thr Leu Met Phe Ser Glu His GCG GTT ATT TCC ATG AGG GAC GGA AAA CTC ACT CTC ATG TTC CGG GTG Ala Val Ile Ser Met Arg Asp Gly Lys Leu Thr Leu Met Phe Arg Val GGC AAC CTG CGC AAC AGC CAC ATG GTC TCC GCG CAG ATC CGC TGC AAG Gly Asn Leu Arg Asn Ser His Met Val Ser Ala Gln Ile Arg Cys Lys CTG CTC AAA TCT CGG CAG ACA CCT GAG GGT GAG TTT CTA CCC CTT GAC Leu Leu Lys Ser Arg Gln Thr Pro Glu Gly Glu Phe Leu Pro Leu Asp CAA CTT GAA CTG GAT GTA GGT TTT AGT ACA GGG GCA GAT CAA CTT TTT Gln Leu Glu Leu Asp Val Gly Phe Ser Thr Gly Ala Asp Gln Leu Phe CTT GTG TCC CCT CTC ACC ATT TGC CAC GTG ATC GAT GCC AAA AGC CCC Leu Val Ser Pro Leu Thr Ile Cys His Val Ile Asp Ala Lys Ser Pro TTT TAT GAC CTA TCC CAG CGA AGC ATG CAA ACT GAA CAG TTC GAG GTG Phe Tyr Asp Leu Ser Gln Arg Ser Met Gln Thr Glu Gln Phe Glu Val GTC GTC ATC CTG GAA GGC ATC GTG GAA ACC ACA GGG ATG ACT TGT CAA Val Val Ile Leu Glu Gly Ile Val Glu Thr Thr Gly Met Thr Cys Gln GCT CGA ACA TCA TAC ACC GAA GAT GAA GTT CTT TGG GGT CAT CGT TTT Ala Arg Thr Ser Tyr Thr Glu Asp Glu Val Leu Trp Gly His Arg Phe TTC CCT GTA ATT TCT TTA GAA GAA GGA TTC TTT AAA GTC GAT TAC TCC Phe Pro Val Ile Ser Leu Glu Glu Gly Phe Phe Lys Val Asp Tyr Ser

DATE: 08/06/1999 TIME: 18:23:33

														II	PUI	SEI: S	32041	.raw
153			330					335					340					
154																		
155	CAG	TTC	CAT	GCA	ACC	TTT	GAA	GTC	CCC	ACC	CCT	CCG	TAC	AGT	GTG	AAA	1108	1
156	Gln	Phe	His	Ala	Thr	Phe	Glu	Val	Pro	Thr	Pro	Pro	Tyr	Ser	Val	Lys		
157		345					350					355						
158																		
159	GAG	CAG	GAA	GAA	ATG	CTT	CTC	ATG	TCT	TCC	CCT	TTA	ATA	GCA	CCA	GCC	1156	,
160	Glu	Gln	Glu	Glu	Met	Leu	Leu	Met	Ser	Ser	Pro	Leu	Ile	Ala	Pro	Ala		
161	360					365					370					375		
162																		
163	ATA	ACC	AAC	AGC	AAA	GAA	AGA	CAC	AAT	TCT	GTG	GAG	TGC	TTA	GAT	GGA	1204	
164	Ile	Thr	Asn	Ser	Lys	Glu	Arg	His	Asn	Ser	Val	Glu	Cys	Leu	Asp	Gly		
165					380		_			385					390			
166																		
167	CTA	GAT	GAC	ATT	AGC	ACA	AAA	CTT	CCA	TCG	AAG	CTG	CAG	AAA	ATT	ACG	1252	!
168	Leu	Asp	Asp	Ile	Ser	Thr	Lys	Leu	Pro	Ser	Lys	Leu	Gln	Lys	Ile	Thr		
169		_	-	395			-		400		-			405				
170																		
171	GGG ²	AGA	GAA	GAC	TTT	CCC	AAA	AAA	CTC	CTG	AGG	ATG	AGT	TCT	ACA	ACT	1300	ı
172						Pro												
173		3	410	- 1			-	415			_		420					
174																		
175	TCA	GAA	AAA	GCC	TAT	AGT	TTG	GGT	GAT	TTG	CCC	ATG	AAA	CTC	CAA	CGA	1348	,
176						Ser									_			
177		425	-1-		- 2 -		430	_	_			435	•			_		
178																		
179	ATA	AGT	TCG	GTT	CCT	GGC	AAC	TCT	GAA	GAA	AAA	CTG	GTA	TCT	AAA	ACC	1396	I
180						Gly												
181	440					445					450				-	455		
182																		
183	ACC	AAG	ATG	TTA	TCA	GAT	CCC	ATG	AGC	CAG	TCT	GTG	GCC	GAT	TTG	CCA	1444	:
184						Asp												
185		1			460	E				465					470			
186																		
187	CCG	AAG	СТТ	CAA	AAG	ATG	GCT	GGA	GGA	CCT	ACC	AGG	ATG	GAA	GGG	AAT	1492	!
188						Met												
189		-1-		475				3	480					485	_			
190																		
191	CTT	CCA	GCC	AAA	CTA	AGA	AAA	ATG	AAC	TCT	GAC	CGC	TTC	ACA			1534	1
192						Arg							_	_				
193			490			3		495			-	,	500					
194																		
195	TAGG	CAAA	ACA (cccci	ATTA	gg C	ATTA	rttc/	A TG	гтттс	GATT	TAG	гттта	AGT (CCAAT	TTTAT	3	1594
196																		
197	GCTC	зата.	AGA '	ГААТ	CCTC	ad de	GGA	AATCI	r GAC	GAGG	ГСТА	TCC	CAGT	CTG (GCAA!	ATTCAT	?	1654
198				`							- 			-				
199	CAG	AGGA	י מעם	ттса'	гтса	AG TO	3TTG	PTAC'	r GTC	STTG	AACA	TGAG	STTA	CAA	AGGGA	AGGACA	4	1714
200	CAG								1				- 					
201	ጥሮል፣	PAAG.	ΔΔΔ .	вста.	атас'	ייי פע	CATO	יייאינ	r Απα	CACA	ГСАА	GCA	rgca:	ATA A	ATGTO	CAAAT		1774
202	I JA			1 4 1 4			~											· · · · -
203	փփփն	GCAT'	ኮጥΔ ሳ	գուրու	гете	GC A	гдатг	ייי אַ ידין	ላ ጥል፣	rggc	ТАТА	TTAT	гатто	AA '	гатто	TGGA	1	1834
204	111	Ai	* * * * '			A							· ·				_	
205	ימממ	ימיימ	тΔΔ	ידמידמ	ייד בידים	יים אין	ል ል ርም ር	GAG	ነ ጥል	ኮሞረነጥ	adda	дта	ሲጥጥጥ	TA :	ኒ ጥልጥ	ATGTAT	י	1894
203	AAA.			ni	···	01		. 0,701				******		4			-	

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 18:23:34

														L	NPUT	SET: S3	2821.raw
206 207	TAA	GCCA	AAC .	ATGA	GTGG/	AT A	GCTT	rcago	g gc	ACTA	TAAA	AAT	ATAC	ATG	CATA	CATACA	1954
208 209 210	TAC	ATGC	ATA '	TGCA	CAGA	CA C	ATAC	ACAC	A CA	FACT	CATA	TAT	ATAA	AAC	ATAC	CCATAC	2014
211 211 212	AAA	CATA'	rat .	ATCT	ATAA	AA A.	ATTG	rgat(TT'	rtgt'	rcaa	AAA	AAAA	AAA	AAAA	AACTCG	2074
213 214	AG																2076
215 216	(2)	INF	ORMA	TION	FOR	SEQ	ID I	NO:2:	:								
217 218			(i) :	SEQUI	ENCE	CHA	RACTI	ERIST	rics	:							
219 220			\ - <i>r</i>	(A) LEI	NGTH	: 50: amin	l am:	ino a		3						
221				•	•		GY:										
222 223		(:	ii)	MOLE	CULE	TYP	E: p	rote	Ln								
224				SEQUI	awae	DEC	ad t di	DT ON		חד ר	NO.						
225 226		·	•														
227 228	Met 1	Ser	Ala	Leu	Arg 5	Arg	Lys	Phe	Gly	Asp 10	Asp	Tyr	Gln	Val	Val	Thr	
229																	
230 231	Thr	Ser	Ser	Ser 20	Gly	Ser	Gly	Leu	Gln 25	Pro	Gln	Gly	Pro	Gly 30	Gln	Gly	
232			_			_						_					
233 234	Pro	Gln	Gln 35	Gln	Leu	Val	Pro	Lys 40	Lys	Lys	Arg	Gln	Arg 45	Phe	Val	Asp	
235							_		_	_		_		_		_,	
236 237	Lys	Asn 50	Gly	Arg	Cys	Asn	Val 55	GIn	His	GTÀ	Asn	Leu 60	СТУ	Ser	Glu	Thr	
238											_		_	_	_	_	
239 240	Ser 65	Arg	Tyr	Leu	Ser	Asp 70	Leu	Phe	Thr	Thr	Leu 75	Val	Asp	Leu	Lys	Trp 80	
241			•	•	D1	71 -	n l	- 1-	T	mb		mb =		37.	m	T 011	
242 243	Arg	тгр	ASN	Leu	Pne 85	тте	Pne	TTE	Leu	90	Tyr	THE	vaı	АТА	Trp 95	rea	
244				_		_		1	- 1-			m\	.	<i>α</i> 1		T	
245 246	Phe	мет	АТа	Ser 100	мет	rrp	Trp	var	105	Ala	ryr	Thr	Arg	110	Asp	ьeu	
247		_					_	_	- 1	_							
248 249	Asn	Lys	A1A 115	His	vaı	GTÀ	Asn	Tyr 120	Tnr	Pro	cys	vaı	A1a	ASN	Val	Tyr	
250																	
251 252	Asn	Phe	Pro	Ser	Ala	Phe	Leu	Phe	Phe	Ile	Glu	Thr	Glu	Ala	Thr	Ile	
253		130					135			•		140					
254 255	Gly	Tvr	Gly	Tyr	Ara	Tyr	Ile	Thr	Asp	Lys	Cys	Pro	Glu	Gly	Ile	Ile	
256	145	- 2 -	2	3 -	د -	150				4	155			_		160	

258 Leu Phe Leu Phe Gln Ser Ile Leu Gly Ser Ile Val Asp Ala Phe Leu

DATE: 08/06/1999 TIME: 18:23:34

INPUT SET: S32821.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

51	(2)	INF	RMAT	NOI	FOR	SEQ	ID I	NO:1	;								
52 53		(i)) SEÇ	UENC	CE CE	IARAG	TER	ISTIC	cs:								
54		(-)			ENGTH					rs							
55			•	•	PE:				_								
56			(0) S	rani	EDNE	ESS:	sing	gle								
57			(I) T(POL	GY:	line	ear									
58																	
59		(ii)) MOI	LECUI	LE TY	PE:	cDN/	A									
60		4 2 1			.												
61		(1X) FE <i>I</i>		s: Ame/f	ZEV.	ang										
62 63					CAT]			1534	1								
64			(1	,	CAL	.011.	J4 .	. 133	•								
65		(xi) SE	OUEN	CE DE	SCR	PTIC	on: s	SEO :	ID NO	0:1:						
66		\		•					_								
67	GGC!	ACGA	GAA 7	CTG	SATC	rc co	CTC	CGTAT	гт А	ATG T	rct (GCA (CTC (CGA A	AGG A	AAA	52
68									1	Met S	Ser A	Ala I	eu i	Arg i	Arg I	Lys	
69										1				5			
70														~~~	a	~~~	100
71	TTT	GGG	GAC	GAT	TAC	CAG	GTA	GTG	ACC	ACT	TCG	TCC	AGC	GGT	TCG	GGC	100
72	Phe	GTA	Asp	Asp	Tyr	GIN	vaı		Thr	Thr	ser	Ser	Ser 20	GTA	ser	GTĀ	
73			10					15					20				
74 75	መመር	CAC	ccc	CAG	acc	CCA	GGA	CAG	aaa	CCA	CAG	CAG	CAG	СТТ	дπа	CCC	148
75 76			Pro														110
77	пеа	25	110	0111	OLY	110	30	Q ±1	01,		J	35					
78							•										
79	AAG	AAG	AAA	CGG	CAG	CGG	TTC	GTG	GAC	AAG	AAC	GGT	CGG	TGC	AAT	GTG	196
80	Lys	Lys	Lys	Arg	Gln	Arg	Phe	Val	Asp	Lys	Asn	Gly	Arg	Cys	Asn	Val	
81	40					45					50					55	
82																	
83	CAG	CAC	GGC	AAC	CTG	GGC	AGC	GAG	ACC	AGT	CGC	TAC	CTT	TCC	GAC	CTC	244
84	Gln	His	Gly	Asn		Gly	Ser	Glu	Thr		Arg	Tyr	Leu	Ser		Leu	
85					60					65					70		
86	mma	3 CIII	ACC	ama	ama	C A TI	ama	3 3 C	TICC	COT	TICC	አአሮ	CTC	ффф	λπС	ጥጥር	292
87 . 88			Thr														2,2
. 89	FILE	1111	1111	75	Val	nop	БСС	шуы	80	9	P			85			
90				, ,													
91	ATC	CTC	ACC	TAC	ACC	GTG	GCC	TGG	CTC	TTC	ATG	GCG	TCC	ATG	TGG	TGG	340
92			Thr														
93			90	-				95					100				
94						•											
95			GCT														388
96	Val		Ala	Tyr	Thr	Arg		Asp	Leu	Asn	Lys		His	Val	Gly	Asn	
97		105					110					115					

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98																	
99																CTT	436
100	_	unr	Pro	cys	vaı	Ala	ASN	vaı	туг	ASN		Pro	ser	АТА	Pne	135	
101	120					125					130					133	
102	mma	mma	y ma	ava	8 C C	GAG	aaa	N.C.C	а пт	aaa	חואות	aaa	መልጣ	aaa	TIAC	አሞሮ	484
103						Glu											404
104 105	Pne	Pile	тте	GIU	140	GIU	нта	1111	TTE	145	ı yı	сту	ıyı	Arg	150	TTC	
106					140					143					130		
107	۵CC	GAC	ΔAC	тас	CCC	GAG	GGC	ΔͲሮ	ΔТС	СПП	ттс	Сфф	ጥጥር	CAG	TCC	ATC	532
108						Glu											
109	****	*****	_,_	155			1		160					165			
110																	
111	CTT	GGC	TCC	ATC	GTG	GAC	GCT	TTC	CTC	ATC	GGC	TGC	ATG	TTC	ATC	AAG	580
112	Leu	Glv	Ser	Ile	Val	Asp	Ala	Phe	Leu	Ile	Gly	Cys	Met	Phe	Ile	Lys	
113		•	170			-		175			-	-	180			_	
114																	
115	ATG	TCC	CAG	CCC	AAA	AAG	CGC	GCC	GAG	ACC	CTC	ATG	TTT	AGC	GAG	CAT	628
116	Met	Ser	Gln	Pro	Lys	Lys	Arg	Ala	Glu	Thr	Leu	Met	Phe	Ser	Glu	His	
117		185					190					195					
118																	
119						AGG										_	676
120		Val	Ile	Ser	Met	Arg	Asp	Gly	Lys	Leu		Leu	Met	Phe	Arg		
121	200					205					210					215	
122											~~~	~-~					704
123						AGC											724
124	GTÀ	Asn	Leu	Arg		Ser	HIS	мет	vaı		АТА	GIN	тте	Arg		гаг	
125					220					225					230		
126 127	OTTO	CTC	***	ጥረጥ	ccc	CAG	አሮአ	ССТ	GNG	CCT	GAG	արար	СПУ	ccc	CITH	GAC	772
128						Gln											,,,
129	БСС	Dea	Lyb	235	~-9	01	****		240	4- <i>y</i>	014			245		p	
130																	
131	CAA	CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	CAA	CTT	TTT	820
132						Val											
133			250		-		_	255			_		260				
134																	
135	CTT	GTG	TCC	CCT	CTC	ACC	ATT	TGC	CAC	GTG	ATC	GAT	GCC	AAA	AGC	CCC	868
136	Leu	Val	Ser	Pro	Leu	Thr	Ile	Cys	His	Val	Ile	Asp	Ala	Lys	Ser	Pro	
137		265					270	•				275					
138																	
139						CAG											916
140		Tyr	Asp	Leu	Ser	Gln	Arg	Ser	Met	GIn		GLu	GIn	Phe	GLu		
141	280					285					290					295	
142	аша	аша		ama		aaa	» ma	CITIC .	a.	100	3.03	aaa	3 111/0	NOTE	шаш	<i>a</i> ,,	064
143						GGC											964
144	vaı	νат	тте	reu		Gly	тте	vат	GIU	305	THE	СТУ	мес	1111		GIII	
145 146					300					303					310		
145	ርርጥ	CGA	ACA	ጥሮል	ТΔС	ACC	GAA	CAT	GAA	СТТ	Сфф	TGG	GGT	САТ	ССТ	արար	1012
147						Thr											
149	A.L. U	9		315	- 1 -			P	320			P	,	325	3		
150									•					_			

DATE: 08/06/1999 TIME: 18:23:35

INPUT SET: S32821.raw TTC CCT GTA ATT TCT TTA GAA GAA GGA TTC TTT AAA GTC GAT TAC TCC 1060 Phe Pro Val Ile Ser Leu Glu Glu Gly Phe Phe Lys Val Asp Tyr Ser CAG TTC CAT GCA ACC TTT GAA GTC CCC ACC CCT CCG TAC AGT GTG AAA 1108 Gln Phe His Ala Thr Phe Glu Val Pro Thr Pro Pro Tyr Ser Val Lys GAG CAG GAA GAA ATG CTT CTC ATG TCT TCC CCT TTA ATA GCA CCA GCC 1156 Glu Gln Glu Glu Met Leu Leu Met Ser Ser Pro Leu Ile Ala Pro Ala ATA ACC AAC AGC AAA GAA AGA CAC AAT TCT GTG GAG TGC TTA GAT GGA 1204 Ile Thr Asn Ser Lys Glu Arg His Asn Ser Val Glu Cys Leu Asp Gly CTA GAT GAC ATT AGC ACA AAA CTT CCA TCG AAG CTG CAG AAA ATT ACG 1252 Leu Asp Asp Ile Ser Thr Lys Leu Pro Ser Lys Leu Gln Lys Ile Thr GGG AGA GAA GAC TTT CCC AAA AAA CTC CTG AGG ATG AGT TCT ACA ACT Gly Arg Glu Asp Phe Pro Lys Lys Leu Leu Arg Met Ser Ser Thr Thr TCA GAA AAA GCC TAT AGT TTG GGT GAT TTG CCC ATG AAA CTC CAA CGA 1348 Ser Glu Lys Ala Tyr Ser Leu Gly Asp Leu Pro Met Lys Leu Gln Arg ATA AGT TCG GTT CCT GGC AAC TCT GAA GAA AAA CTG GTA TCT AAA ACC 1396 Ile Ser Ser Val Pro Gly Asn Ser Glu Glu Lys Leu Val Ser Lys Thr ACC AAG ATG TTA TCA GAT CCC ATG AGC CAG TCT GTG GCC GAT TTG CCA Thr Lys Met Leu Ser Asp Pro Met Ser Gln Ser Val Ala Asp Leu Pro CCG AAG CTT CAA AAG ATG GCT GGA GGA CCT ACC AGG ATG GAA GGG AAT Pro Lys Leu Gln Lys Met Ala Gly Gly Pro Thr Arg Met Glu Gly Asn CTT CCA GCC AAA CTA AGA AAA ATG AAC TCT GAC CGC TTC ACA Leu Pro Ala Lys Leu Arg Lys Met Asn Ser Asp Arg Phe Thr TAGCAAAACA CCCCATTAGG CATTATTCA TGTTTTGATT TAGTTTTAGT CCAATATTTG GCTGATAAGA TAATCCTCCC CGGGAAATCT GAGAGGTCTA TCCCAGTCTG GCAAATTCAT CAGAGGACTC TTCATTGAAG TGTTGTTACT GTGTTGAACA TGAGTTACAA AGGGAGGACA TCATAAGAAA GCTAATAGTT GGCATGTATT ATCACATCAA GCATGCAATA ATGTGCAAAT TTTGCATTTA GTTTTCTGGC ATGATTTATA TATGGCATAT TTATATTGAA TATTCTGGAA

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					i	INPUT SET: S32821.raw			
204									
205	AAATATATAA	ATATATATTT	GAAGTGGAGA	TATTCTCCCC	ATAATTTCTA	ATATATGTAT	1894		
206									
207	TAAGCCAAAC	ATGAGTGGAT	AGCTTTCAGG	GCACTAAAAT	AATATACATG	CATACATACA	1954		
208									
209	TACATGCATA	TGCACAGACA	CATACACACA	CATACTCATA	TATATAAAAC	ATACCCATAC	2014		
210									
211	AAACATATAT	ATCTAATAAA	AATTGTGATG	TTTTGTTCAA	AAAAAAAAA	AAAAAACTCG	2074		
212									
213	AG						2076		
214									
215									

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/039,927

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